

L9 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1979:7548 CAPLUS

DOCUMENT NUMBER: 90:7548

TITLE: Water-resistant and oil-resistant textiles

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PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 53081799	A2	19780719	JP 1976-157402	19761228
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PRIORITY APPLN. INFO.:	JP 1976-157402	19761228
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AB Water- and oil-resistant cotton or polyester fabrics with improved hand were prepd. by mixing a poly(dimethylsiloxane) or Me H polysiloxane (I) with a polymer based on RZCO₂CR₁:CH₂, where R is a C₄-15 perfluoroalkyl group, Z is a C₁-10 alkylene, and R₁ is H or Me, and finishing the fabric with the mixt. Thus, an ***emulsion*** contg. a mixt. (A) of a 4:3:2:1 CH₂:CHCO₂(CH₂)₃(CF₂)₄CF(CF₃)₂-

CH₂:CHCO₂(CH₂)₃(CF₂)₆CF(CF₃)₂-

CH₂:CHCO₂(CH₂)₃(CF₂)₈CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₁₀CF(CF₃)₂

copolymer [

68508-80-5] 73, Et ***acrylate*** 25, and diacetone acrylamide

2 wt.% 100, an emulsifier 9, and C₁₈H₃₇N+Me₃Cl- 1 part and I were mixed.

A polyester doeskin was immersed in the resulting mixt. to 90% pickup,

dried, and heated 1 min at 170.degree. to give a smooth water- and

oil-resistant fabric with A mixt. content 0.04% and I content 0.02%,

whereas the hand of a fabric treated with a similar compn. without I was

not smooth.

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